



# Product Specification Report

1.0/99860001/0117

Emulsifiable metalworking fluid for heavy-duty operations

## METALUBE ENDURANCE EP

Emulsifiable metalworking fluid

### FEATURES:

<b>Coolant</b>	Immediate and constant cooling effect.
<b>Anti-corrosion</b>	Anti-corrosion additives provide excellent protection of the workpieces.
<b>Low foaming</b>	The fact that it's low foaming makes this product is also suitable for use in high pressure systems (>30 bar).
<b>Biostable</b>	Contains biocides to prevent bacterial and fungal growth.
<b>Broad compatibility</b>	Can be used on ferrous metals, aluminum, light alloys and high alloy steels.

### APPLICATIONS:

Ideal for heavy-duty operations, such as tapping and threading, cutting, sawing etc.

### INSTRUCTIONS FOR USE:

Form ..... Clear Liquid  
Colour ..... Amber  
Odour ..... Characteristic  
Density (20°C) ..... 0,987 g/cm<sup>3</sup>  
Appearance emulsion 5% ... Milky  
pH emulsion 5% ..... ± 9,4  
Refractive index ..... 1,0

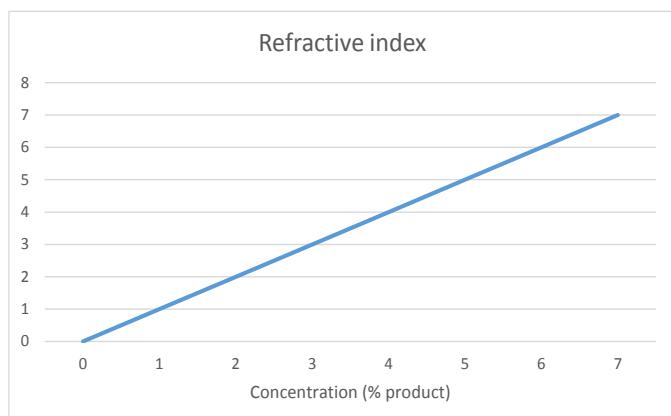
### INSTRUCTIONS FOR USE:

Slowly add the product to water while stirring vigorously until a milky emulsion is obtained. Dosage: 4-10%.

	Carbon steel	Alloy steel	Cu Al alloys	Cast iron, stainless steel
Light	4	5	4	4
Medium	6	7		
Heavy	8	10	6	6

### ANALYSIS:

Take a sample of the emulsion, and measure the refractive index.



### PRECAUTIONS FOR USE:

Store between 5°C and 40°C. When stored at lower temperatures, gelification can occur. This makes it more difficult to create the emulsion.

All information in this document is based on our practical experience and/or laboratory tests. Due to the multiplicity of conditions for usage and variable human factors, we recommend that you always test our products for suitability prior to use. At any time, this version of the product specification report may have been revised based on legislation, availability of the individual ingredients or newly acquired information. The current approved version is available upon request.



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